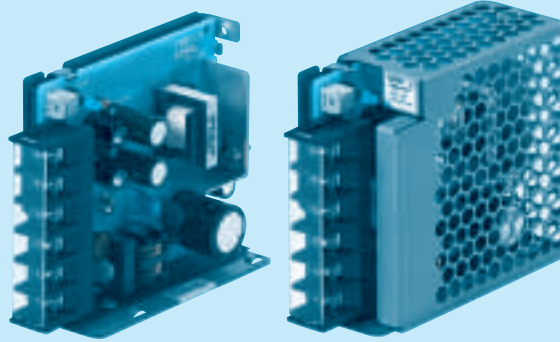
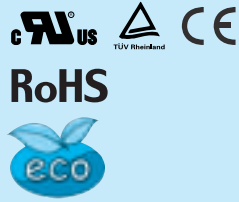


PBW15F

① PB ② W ③ 15 ④ F ⑤ - □ ⑥ - □



Recommended EMI/EMC Filter
NAC-06-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series
*The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name
- ② Dual output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage
- ⑥ Optional *10
C : with Coating
G : Low leakage current

E : Low leakage current and EMI class A

T : Vertical terminal block
J : Connector type
N : with Cover
NI : with DIN rail
V : Output voltage setting potentiometer externally

Cover is optional

| MODEL | PBW15F-12 | PBW15F-15 |
|-----------------------|----------------|-------------|
| MAX OUTPUT WATTAGE[W] | 16.8 | 15.0 |
| DC OUTPUT | VOLTAGE[V] *6 | ±12 (+24) |
| | CURRENT1[A] | 0.7 |
| | CURRENT2[A] *5 | 1.4 |

SPECIFICATIONS

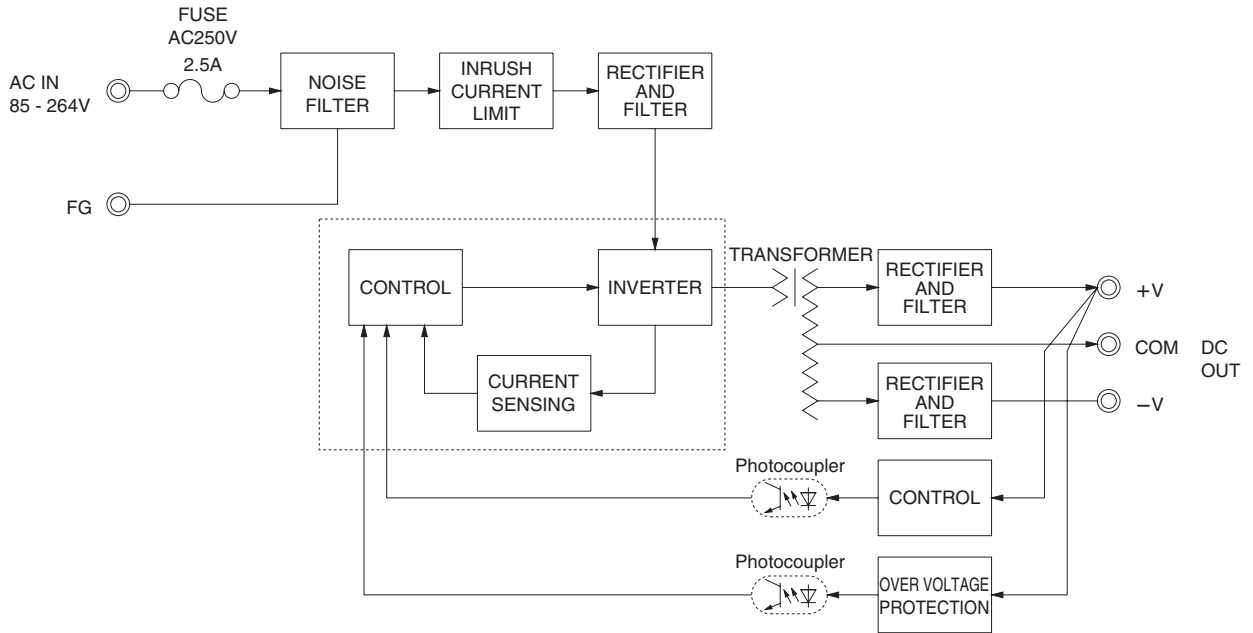
| | MODEL | PBW15F-12 | PBW15F-15 | |
|------------------------------------|--|---|---|-----------------|
| INPUT | VOLTAGE[V] | AC85 - 264 1 φ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *8) | | |
| | CURRENT[A] | ACIN 100V | 0.40typ (CURRENT1) | |
| | | ACIN 200V | 0.20typ (CURRENT1) | |
| | FREQUENCY[Hz] | 50/60 (47 - 440) or DC | | |
| | EFFICIENCY[%] | ACIN 100V | 74typ (CURRENT1) | |
| | | ACIN 200V | 77typ (CURRENT1) | |
| | INRUSH CURRENT[A] | ACIN 100V | 15typ (CURRENT1) (At cold start) | |
| | ACIN 200V | 30typ (CURRENT1) (At cold start) | | |
| LEAKAGE CURRENT[mA] | 0.15/0.30max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1.DENAN) | | | |
| OUTPUT | VOLTAGE[V] | ±12 / (+24V reference number) | ±15 / (+30V reference number) | |
| | CURRENT1[A] | 0.7 / 0.7 | 0.5 / 0.5 | |
| | CURRENT2[A] *5 | 1.4 / - | 1.0 / - | |
| | LINE REGULATION[mV] *3 | 60max / 96max | 60max / 96max | |
| | LOAD REGULATION 1[mV] *3 | 600max / 150max | 600max / 150max | |
| | LOAD REGULATION 2[mV] *4 | 750max / - | 750max / - | |
| | RIPPLE[mVp-p] | 0 to +50°C *1 | 120max / 240max | 120max / 240max |
| | | -10 - 0°C *1 | 160max / 320max | 160max / 320max |
| | RIPPLE NOISE[mVp-p] | 0 to +50°C *1 | 150max / 300max | 150max / 300max |
| | | -10 - 0°C *1 | 180max / 360max | 180max / 360max |
| | TEMPERATURE REGULATION[mV] | 0 to +50°C | 120max | 150max |
| | | -10 to +50°C | 150max | 180max |
| | DRIFT[mV] *2 | 48max | | 60max |
| | START-UP TIME[ms] | 200typ (ACIN 100V, Io=100%) *Start-up time is 700ms typ for less than 1minute of applying input again from turning off the input voltage. | | |
| HOLD-UP TIME[ms] | 20typ (ACIN 100V, Io=100%) | | | |
| OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | 9.60 - 13.2 (+V and -V are simultaneously adjusted) | | 13.2 - 16.5 (+V and -V are simultaneously adjusted) | |
| OUTPUT VOLTAGE SETTING[V] | 11.5 - 12.5 (+V and -V CURRENT1) | | 14.4 - 15.6 (+V and -V CURRENT1) | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | Works over 105% of rated current and recovers automatically | | |
| | OVERVOLTAGE PROTECTION[V] | 16.8 - 24.0 | | |
| | OPERATING INDICATION | LED (Green) | | |
| | REMOTE ON/OFF | None | | |
| ISOLATION | INPUT-OUTPUT | AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) | | |
| | INPUT-FG | AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) | | |
| | OUTPUT-FG | AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature) | | |
| ENVIRONMENT | OPERATING TEMP.,HUMID.AND ALTITUDE | -10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max | | |
| | STORAGE TEMP.,HUMID.AND ALTITUDE | -20 to +75°C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max | | |
| | VIBRATION | 10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis | | |
| | IMPACT | 196.1m/s ² (20G), 11ms, once each X, Y and Z axis | | |
| SAFETY AND NOISE REGULATIONS | AGENCY APPROVALS (At only AC input) | UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN | | |
| | CONDUCTED NOISE | Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B | | |
| | HARMONIC ATTENUATOR | Complies with IEC61000-3-2 (Not built-in to active filter *7) *12 | | |
| OTHERS | CASE SIZE/WEIGHT | 31 x 78 x 85mm [1.22 x 3.07 x 3.35 inches] (without terminal block) (W x H x D) / 200g max (without cover) | | |
| | COOLING METHOD | Convection | | |

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN : RM101).
*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
*3 Figures for 0 to rated current 1. The current not measured side is fixed.
*4 Figures for 0 to rated current 2. The current not measured

side is fixed.
*5 The sum of +power -power must be less than output power.
*6 ±12, ±15 can be used as +24 and +30.
*7 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.
*8 Derating is required.
*9 Figures to rated current 1.

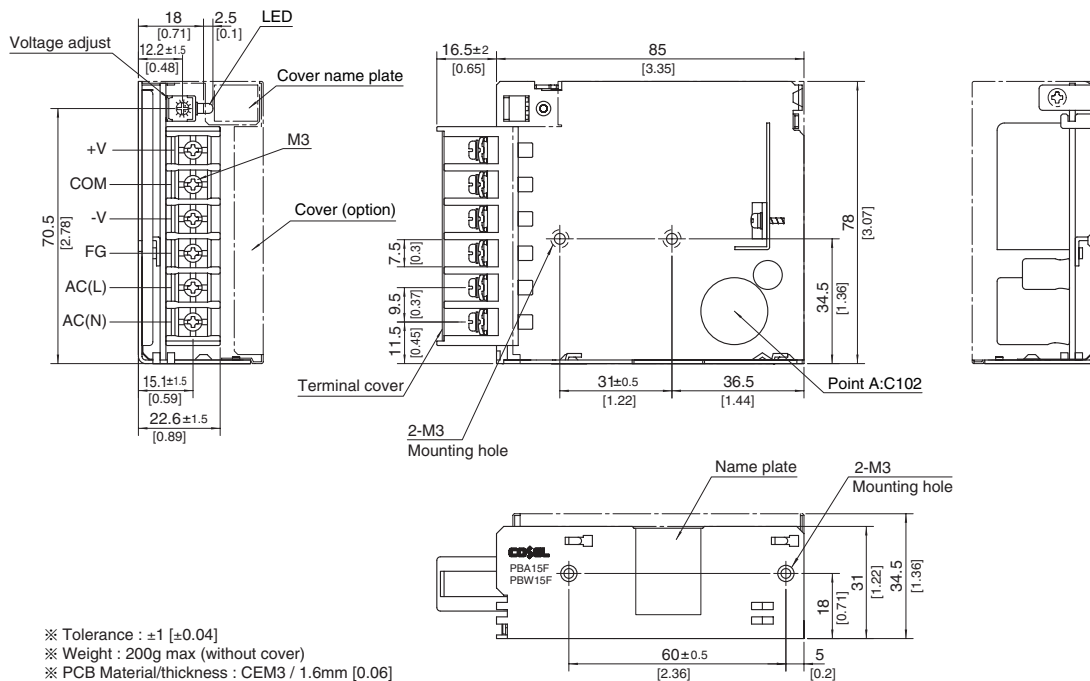
*10 Please contact us about safety approvals for the model with option.
*11 Please contact us about dynamic load and input response.
*12 Please contact us about class C.
* Parallel operation with other model is not possible.
* Derating is required when operated with cover.
* A sound may occur from power supply at peak loading.

Block diagram



External view

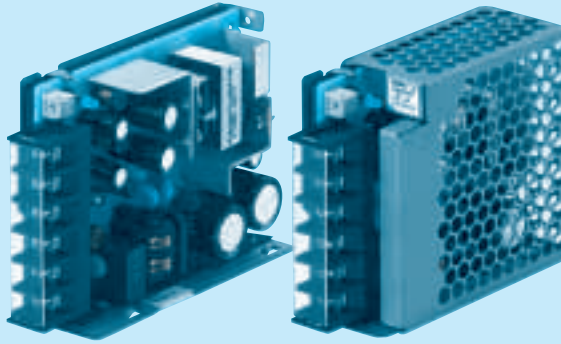
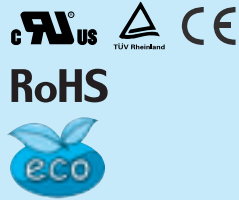
※ External size of option T,J,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



- ※ Tolerance : ±1 [±0.04]
- ※ Weight : 200g max (without cover)
- ※ PCB Material/thickness : CEM3 / 1.6mm [0.06]
- ※ Chassis material : Electric galvanizing steel board
- ※ Dimensions in mm, [] = inches
- ※ Mounting torque : 0.6N • m(6.3kgf • cm)max
- ※ Screw tightening torque : M3 0.8N • m(8.5kgf • cm)max
- ※ Please connect safety ground to the unit in 2-M3 holes.

PBW30F

PB W 30 F - □ - □
 ① ② ③ ④ ⑤ ⑥



Recommended EMI/EMC Filter
 NAC-06-472



High voltage pulse noise type : NAP series
 Low leakage current type : NAM series
 *The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name
- ② Dual output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage
- ⑥ Optional *10
- C :with Coating
- G :Low leakage current

E :Low leakage current and EMI class A

T :Vertical terminal block
 J :Connector type
 N :with Cover
 NI :with DIN rail
 V :Output voltage setting potentiometer externally

Cover is optional

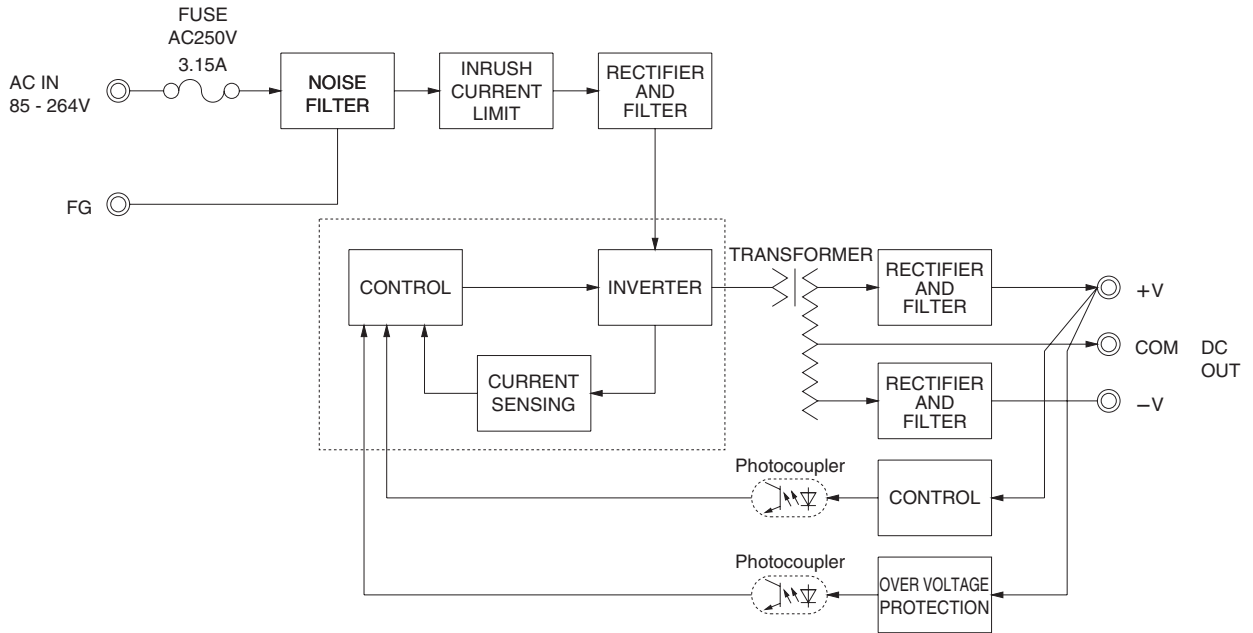
| MODEL | PBW30F-5 | PBW30F-12 | PBW30F-15 |
|-----------------------|----------------|------------|-------------|
| MAX OUTPUT WATTAGE[W] | 15 | 31.2 | 30.0 |
| DC OUTPUT | VOLTAGE[V] *5 | ±5 (+10) | ±15 (+30) |
| | CURRENT1[A] | 1.5 | 1.3 |
| | CURRENT2[A] *5 | 2.0 | 1.7 |

SPECIFICATIONS

| | MODEL | PBW30F-5 | PBW30F-12 | PBW30F-15 | |
|------------------------------------|--|---|---|---------------------------------|------------------|
| INPUT | VOLTAGE[V] | AC85 - 264 1 φ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *8) | | | |
| | CURRENT[A] | ACIN 100V | 0.4typ (CURRENT1) | 0.7typ (CURRENT1) | |
| | | ACIN 200V | 0.25typ (CURRENT1) | 0.4typ (CURRENT1) | |
| | FREQUENCY[Hz] | 50/60 (47 - 440) or DC | | | |
| | EFFICIENCY[%] | ACIN 100V | 75typ (CURRENT1) | 77typ (CURRENT1) | 78typ (CURRENT1) |
| | | ACIN 200V | 75typ (CURRENT1) | 81typ (CURRENT1) | 79typ (CURRENT1) |
| INRUSH CURRENT[A] | ACIN 100V | 15typ (CURRENT1) (At cold start) | | | |
| | ACIN 200V | 30typ (CURRENT1) (At cold start) | | | |
| LEAKAGE CURRENT[mA] | 0.30/0.65max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1.DENAN) | | | | |
| OUTPUT | VOLTAGE[V] | ±5 / (+10V reference number) | ±12 / (+24V reference number) | ±15 / (+30V reference number) | |
| | CURRENT1[A] | 1.5 / 1.5 | 1.3 / 1.3 | 1.0 / 1.0 | |
| | CURRENT2[A] *5 | 2.0 / - | 1.7 / - | 1.4 / - | |
| | LINE REGULATION[mV] *11 | 20max / 36max | 60max / 96max | 60max / 96max | |
| | LOAD REGULATION 1[mV] *11 | 250max / 100max | 600max / 150max | 600max / 150max | |
| | LOAD REGULATION 2[mV] *11 | 500max / - | 750max / - | 750max / - | |
| | RIPPLE[mVp-p] | 0 to +50°C *1 | 80max / 240max | 120max / 240max | 120max / 240max |
| | | -10 - 0°C *1 | 140max / 320max | 160max / 320max | 160max / 320max |
| | RIPPLE NOISE[mVp-p] | 0 to +50°C *1 | 120max / 300max | 150max / 300max | 150max / 300max |
| | | -10 - 0°C *1 | 160max / 360max | 180max / 360max | 180max / 360max |
| | TEMPERATURE REGULATION[mV] | 0 to +50°C | 50max | 120max | 150max |
| | | -10 to +50°C | 60max | 150max | 180max |
| | DRIFT[mV] *2 | 20max | 48max | 60max | |
| START-UP TIME[ms] | 200typ (ACIN 100V, Io=100%) * Start-up time is 700ms typ for less than 1minute of applying input again from turning off the input voltage. | | | | |
| HOLD-UP TIME[ms] | 20typ (ACIN 100V, Io=100%) | | | | |
| OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | 4.99 - 6.00 (+V and -V are simultaneously adjusted) | 9.60 - 13.2 (+V and -V are simultaneously adjusted) | 13.2 - 16.5 (+V and -V are simultaneously adjusted) | | |
| OUTPUT VOLTAGE SETTING[V] | 4.99 - 5.30 (+V and -V CURRENT1) | 11.5 - 12.5 (+V and -V CURRENT1) | 14.4 - 15.6 (+V and -V CURRENT1) | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | Works over 105% of rated current and recovers automatically | | | |
| | OVERVOLTAGE PROTECTION[V] | 6.90 - 10.0 | 16.8 - 24.0 | 20.0 - 29.0 | |
| | OPERATING INDICATION | LED (Green) | | | |
| | REMOTE ON/OFF | None | | | |
| ISOLATION | INPUT-OUTPUT | AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) | | | |
| | INPUT-FG | AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) | | | |
| | OUTPUT-FG | AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature) | | | |
| ENVIRONMENT | OPERATING TEMP.,HUMID.AND ALTITUDE | -10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max | | | |
| | STORAGE TEMP.,HUMID.AND ALTITUDE | -20 to +75°C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max | | | |
| | VIBRATION | 10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis | | | |
| | IMPACT | 196.1m/s ² (20G), 11ms, once each X, Y and Z axis | | | |
| SAFETY AND NOISE REGULATIONS | AGENCY APPROVALS (At only AC input) | UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN | | | |
| | CONDUCTED NOISE | Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B | | | |
| | HARMONIC ATTENUATOR | Complies with IEC61000-3-2 (Not built-in to active filter *7) *12 | | | |
| OTHERS | CASE SIZE/WEIGHT | 31 x 78 x 103mm [1.22 x 3.07 x 4.06 inches] (without terminal block) (W x H x D) / 270g max (without cover) | | | |
| | COOLING METHOD | Convection | | | |

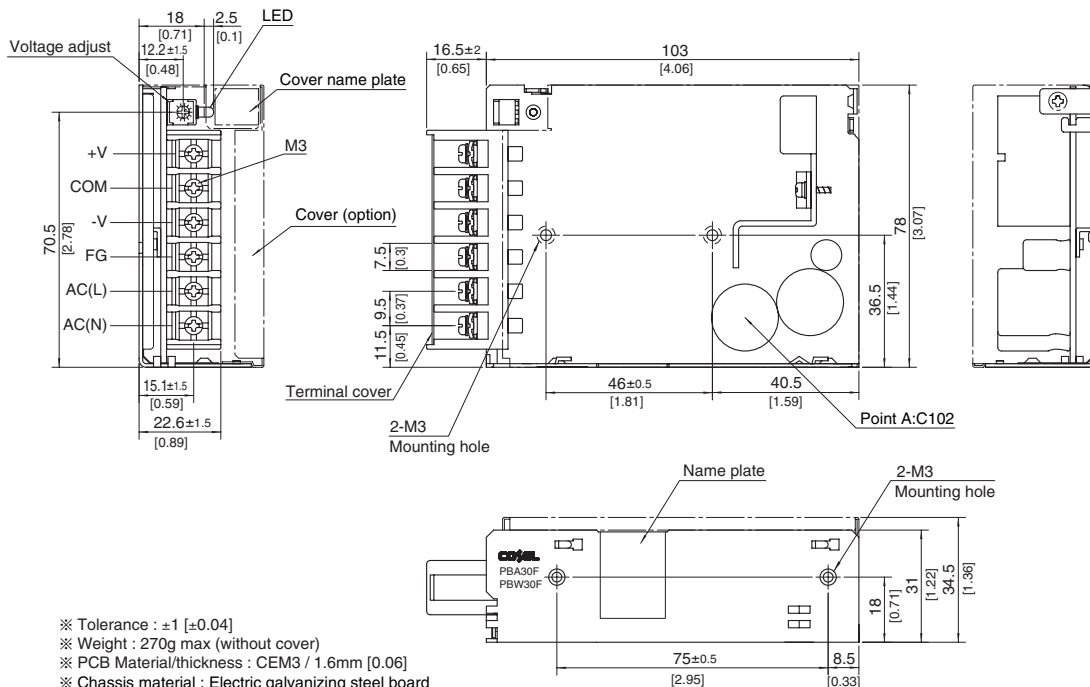
*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 *3 Figures for 0 to rated current 1.The current not measured side is fixed.
 *4 Figures for 0 to rated current 2.The current not measured side is fixed.
 *5 The sum of +power -power must be less than output power.
 *6 ±5, ±12, ±15 can be used as +10, +24 and +30.
 *7 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.
 *8 Derating is required.
 *9 Figures to rated current 1.
 *10 Please contact us about safety approvals for the model with option.
 *11 Please contact us about dynamic load and input response.
 *12 Please contact us about class C.
 * Parallel operation with other model is not possible.
 * Derating is required when operated with cover.
 * A sound may occur from power supply at peak loading.

Block diagram



External view

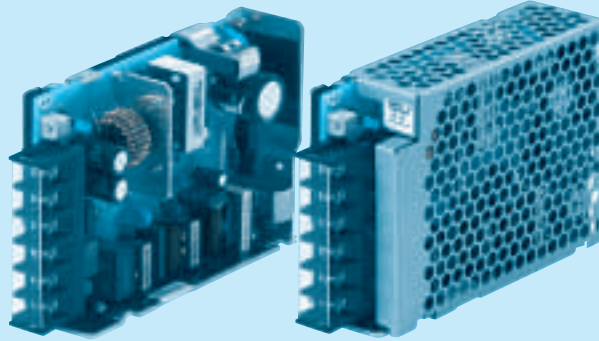
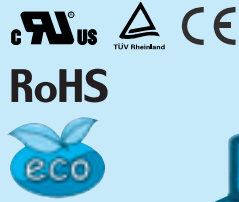
※ External size of option T,J,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



- ※ Tolerance : ±1 [±0.04]
- ※ Weight : 270g max (without cover)
- ※ PCB Material/thickness : CEM3 / 1.6mm [0.06]
- ※ Chassis material : Electric galvanizing steel board
- ※ Dimensions in mm, [] = inches
- ※ Mounting torque : 0.6N • m(6.3kgf • cm)max
- ※ Screw tightening torque : M3 0.8N • m(8.5kgf • cm)max
- ※ Please connect safety ground to the unit in 2-M3 holes.

PBW50F

① PB ② W ③ 50 ④ F ⑤ -□ ⑥ -□



Recommended EMI/EMC Filter
NAC-06-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series
*The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name
- ② Dual output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage
- ⑥ Optional *9
- C : with Coating
- G : Low leakage current (0.15mA max / ACIN 240V)
- E : Low leakage current and EMI class A (0.5mA max / ACIN 240V)
- T : Vertical terminal block
- J : Connector type
- R : with Remote ON/OFF
- N : with Cover
- Ni : with DIN rail
- V : Output voltage setting potentiometer externaly

Cover is optional

| MODEL | PBW50F-5 | PBW50F-12 | PBW50F-15 |
|-----------------------|----------------|------------|-------------|
| MAX OUTPUT WATTAGE[W] | 30 | 50.4 | 51 |
| DC OUTPUT | VOLTAGE[V] *8 | ±5 (+10) | ±15 (+30) |
| | CURRENT1[A] | 3.0 | 2.1 |
| | CURRENT2[A] *6 | 4.0 | 2.7 |

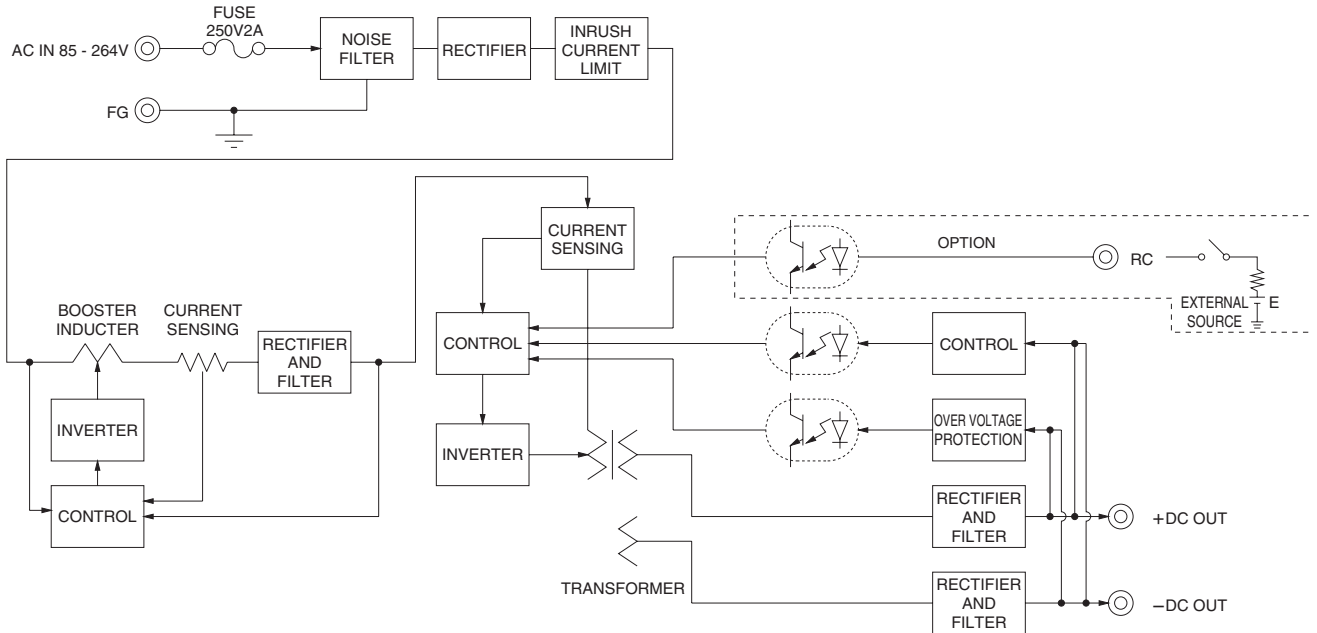
SPECIFICATIONS

| | MODEL | PBW50F-5 | PBW50F-12 | PBW50F-15 | |
|------------------------------------|--|---|---|---------------------------------|------------------|
| INPUT | VOLTAGE[V] | AC85 - 264 1 φ or DC120 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *3) | | | |
| | CURRENT[A] | ACIN 100V | 0.45typ (CURRENT1) | 0.70typ (CURRENT1) | |
| | | ACIN 200V | 0.30typ (CURRENT1) | 0.40typ (CURRENT1) | |
| | FREQUENCY[Hz] | 50/60 (47 - 63) | | | |
| | EFFICIENCY[%] | ACIN 100V | 76typ (CURRENT1) | 81typ (CURRENT1) | 81typ (CURRENT1) |
| | | ACIN 200V | 77typ (CURRENT1) | 83typ (CURRENT1) | 83typ (CURRENT1) |
| | POWER FACTOR(lo=100%) | ACIN 100V | 0.98typ | 0.99typ | |
| ACIN 200V | | 0.87typ | 0.93typ | | |
| INRUSH CURRENT[A] | ACIN 100V | 15typ (CURRENT1) (At cold start) | | | |
| | ACIN 200V | 30typ (CURRENT1) (At cold start) | | | |
| LEAKAGE CURRENT[mA] | 0.40/0.75max (ACIN 100V/240V 60Hz, lo=100%, According to IEC60950-1.DENAN) | | | | |
| OUTPUT | VOLTAGE[V] | ±5 / (+10V reference number) | ±12 / (+24V reference number) | ±15 / (+30V reference number) | |
| | CURRENT1[A] | 3.0 / 3.0 | 2.1 / 2.1 | 1.7 / 1.7 | |
| | CURRENT2[A] | *6 4.0 / - | 2.7 / - | 2.4 / - | |
| | LINE REGULATION[mV] | 20max / 36max | 48max / 96max | 60max / 96max | |
| | LOAD REGULATION 1[mV] | *4 250max / 100max | 600max / 150max | 600max / 150max | |
| | LOAD REGULATION 2[mV] | *5 500max / - | 750max / - | 750max / - | |
| | RIPPLE[mVp-p] | 0 to +50°C *1 | 80max / 240max | 120max / 240max | 120max / 240max |
| | | -10 - 0°C *1 | 140max / 320max | 160max / 320max | 160max / 320max |
| | RIPPLE NOISE[mVp-p] | 0 to +50°C *1 | 120max / 300max | 150max / 300max | 150max / 300max |
| | | -10 - 0°C *1 | 160max / 360max | 180max / 360max | 180max / 360max |
| | TEMPERATURE REGULATION[mV] | 0 to +50°C | 50max | 120max | 150max |
| | | -10 to +50°C | 60max | 150max | 180max |
| | DRIFT[mV] | *2 20max | 48max | 60max | |
| | START-UP TIME[ms] | 350typ (ACIN 100V, lo=100%) | | | |
| HOLD-UP TIME[ms] | 20typ (ACIN 100V, lo=100%) | | | | |
| OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | 4.99 - 6.00 (+V and -V are simultaneously adjusted) | 9.60 - 13.2 (+V and -V are simultaneously adjusted) | 13.2 - 16.5 (+V and -V are simultaneously adjusted) | | |
| OUTPUT VOLTAGE SETTING[V] | 4.99 - 5.30 (+V and -V CURRENT1) | 11.5 - 12.5 (+V and -V CURRENT1) | 14.4 - 15.6 (+V and -V CURRENT1) | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | Works over 105% of rated current and recovers automatically | | | |
| | OVERVOLTAGE PROTECTION[V] | 6.90 - 10.0 | 16.8 - 24.0 | 20.0 - 29.0 | |
| | OPERATING INDICATION | LED (Green) | | | |
| | REMOTE ON/OFF | Optional (Required external power source) | | | |
| ISOLATION | INPUT-OUTPUT · RC | *7 AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) | | | |
| | INPUT-FG | AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) | | | |
| | OUTPUT · RC-FG | *7 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature) | | | |
| ENVIRONMENT | OPERATING TEMP., HUMID. AND ALTITUDE | -10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3.000m (10.000feet) max | | | |
| | STORAGE TEMP., HUMID. AND ALTITUDE | -20 to +75°C, 20 - 90%RH (Non condensing) 9.000m (30.000feet) max | | | |
| | VIBRATION | 10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis | | | |
| | IMPACT | 196.1m/s ² (20G), 11ms, once each X, Y and Z axis | | | |
| SAFETY AND NOISE REGULATIONS | AGENCY APPROVALS (At only AC input) | UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN | | | |
| | CONDUCTED NOISE | Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B | | | |
| | HARMONIC ATTENUATOR | Complies with IEC61000-3-2 *10 | | | |
| OTHERS | CASE SIZE/WEIGHT | 31 x 82 x 120mm [1.22 x 3.23 x 4.72 inches] (without terminal block) (W x H x D) / 280g max (without cover) | | | |
| | COOLING METHOD | Convection | | | |

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN : RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 *3 Derating is required.
 *4 Figures for 0 to rated current 1. The current not measured side is fixed.
 *5 Figures for 0 to rated current 2. The current not measured side is fixed.
 *6 The sum of +power -power must be less than output power.
 *7 RC is applied to remote ON/OFF option. RC is isolated with input/output and FG.
 *8 ±5, ±12, ±15 can be used as +10, +24 and +30.
 *9 Please contact us about safety approvals for the model with option.
 *10 Please contact us about class C.
 * Parallel operation with other model is not possible.
 * Derating is required when operated with cover.
 * A sound may occur from power supply at peak loading.

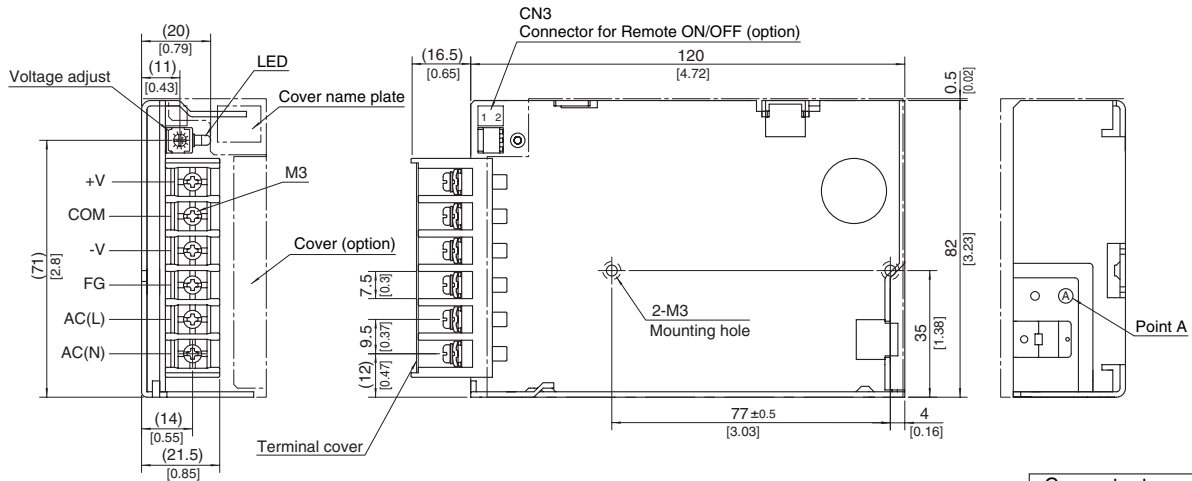
Block diagram

PBA/PBW



External view

※ External size of option T,J,R,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



Connector type
CN3 Option (Mfr : J.S.T.)

| Pin No. | Contents |
|---------|----------|
| 1 | RC(+) |
| 2 | RC(-) |

Barrier strip type
Model B2B-XH-A
Mating Connector (Terminal)
XHP-2
(BXH-001T-P0.6
or SXH-001T-P0.6)

- ※ Tolerance : ±1 [±0.04]
- ※ Weight : 280g max (without cover)
- ※ PCB Material/thickness : CEM3 / 1.6mm [0.06]
- ※ Chassis material : Aluminum
- ※ Dimensions in mm, [] = inches
- ※ Mounting torque : 0.49N • m(5kgf • cm)max
- ※ Screw tightening torque : M3 0.8N • m(8.5kgf • cm)max
- ※ Please connect safety ground to the unit in 2-M3 holes.